

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2020

Project Name : CP-2020-06-08-24
: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
: Project Sub Division, BBMP, Bangalore.
: Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/YnkZone/WO/159/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-05-20
Customer ID : Water Tank Roof Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Reference to BIS codes

Date of test : 30/05/2020

Date of test					: 30/05/2020						
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Water Tank Roof Concrete	M25	23/05/2020	30/05/2020	151.92 X	23017	8.384	532.0	23.1	22.4	
					151.51 X						
					149.71						
2	Water Tank Roof Concrete	M25	23/05/2020	30/05/2020	151.08 X	22782	8.405	502.2	22.0		
					150.79 X						
					149.03						
3	Water Tank Roof Concrete	M25	23/05/2020	30/05/2020	149.55 X	22520	8.142	498.2	22.1		
					150.59 X						
					151.81						

Note:

The results pertain to the samples received and tested.
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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID : CP-2020-06-08-24 **Date:** 03-06-20

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03

Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/159/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-20

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 30-05-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 1542:1992 (RA-2007)
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

TEST REPORT OF FINE AGGREGATE

Lab ID

:

CP-2020-06-08-24

Date: 03-06-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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****End of Report****

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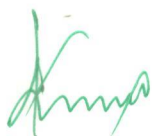
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-08-24 **Date:** 06/06/2020
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/YnkZone/WO/159/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 11-05-20
Customer ID : TF Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 06/06/2020

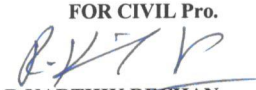
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	TF Column Concrete	M25	09/05/2020	06/06/2020	151.83 X	22868	8.426	622.6	27.2	27.2
					150.61 X					
					149.05					
2	TF Column Concrete	M25	09/05/2020	06/06/2020	150.33 X	22795	8.795	593.8	26.1	
					151.63 X					
					149.43					
3	TF Column Concrete	M25	09/05/2020	06/06/2020	151.62 X	22759	8.975	647.0	28.4	
					150.10 X					
					149.57					

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 Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/06/2020

CP-2020-06-08-24
Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Project Sub Division, BBMP, Bangalore.
Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
EE(Project)/YnkZone/WO/159/19-20
Sample supplied by Agency
Satisfactory
03-06-20
RCC
150X150X150 mm
M25 / 7 Days Compressive Strength
IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Reference to BIS codes

Date of test : 08/06/2020

Date of test					08/06/2020						
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	RCC	M25	01/06/2020	08/06/2020	151.80 X	23002	8.384	534.4	23.2	22.7	
					151.53 X						
					149.86						
2	RCC	M25	01/06/2020	08/06/2020	151.95 X	22780	8.405	518.0	22.7		
					149.92 X						
					151.86						
3	RCC	M25	01/06/2020	08/06/2020	149.88 X	22748	8.142	502.1	22.1		
					151.77 X						
					149.66						

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Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/06/2020

Project Name : CP-2020-06-08-24
: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
: Project Sub Division, BBMP, Bangalore.
: Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/YnkZone/WO/159/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-06-20
Customer ID : RCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Reference to BIS codes

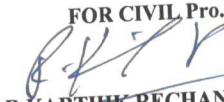
Date of test : 08/06/2020

Date of test : 08/06/2020					Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M25	01/06/2020	08/06/2020	150.48 X	22814	8.384	525.3	23.0	22.9
					151.61 X					
					149.23					
2	RCC	M25	01/06/2020	08/06/2020	150.41 X	22733	8.405	519.9	22.9	
					151.14 X					
					151.35					
3	RCC	M25	01/06/2020	08/06/2020	150.23 X	22391	8.142	507.3	22.7	
					149.04 X					
					150.67					

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Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/06/2020

Customer ID : CP-2020-06-08-24

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03

Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/159/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-20

Customer ID : Column Concrete for Water Tank

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test					: 11/06/2020						
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Column Concrete for Water Tank	M25	14/05/2020	11/06/2020	150.03 X	22376	8.426	625.0	27.9	27.8	
					149.14 X						
					149.41						
2	Column Concrete for Water Tank	M25	14/05/2020	11/06/2020	150.18 X	22530	8.795	601.2	26.7		
					150.03 X						
					151.82						
3	Column Concrete for Water Tank	M25	14/05/2020	11/06/2020	149.14 X	22305	8.975	640.5	28.7		
					149.56 X						
					150.00						

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/06/2020

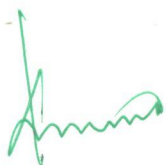
Lab ID : CP-2020-06-08-24
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/YnkZone/WO/159/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-05-20
Customer ID : Water Tank Roof Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/06/2020

Date of test : 20/06/2020

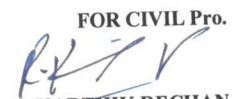
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Water Tank Roof Concrete	M25	23/05/2020	20/06/2020	150.34 X	22605	8.426	619.0	27.4	27.3
					150.36 X					
					149.40					
2	Water Tank Roof Concrete	M25	23/05/2020	20/06/2020	151.67 X	22762	8.795	599.6	26.3	
					150.08 X					
					150.88					
3	Water Tank Roof Concrete	M25	23/05/2020	20/06/2020	151.70 X	22950	8.975	647.0	28.2	
					151.28 X					
					151.56					

Note:

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Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP-2020-06-08-24 **Date: 24/06/2020**
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/YnkZone/WO/159/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-05-20
Customer ID : Copping Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Copping Concrete	M20	27/05/2020	24/06/2020	149.01 X 150.72 X 150.04	22460	8.502	539.0	24.0	23.1
2	Copping Concrete	M20	27/05/2020	24/06/2020	150.06 X 149.97 X 150.05	22504	8.785	498.3	22.1	
3	Copping Concrete	M20	27/05/2020	24/06/2020	149.41 X 151.66 X 149.13	22659	8.052	527.7	23.3	

Note:

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 Authorized Signatory
 Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/06/2020

Lab ID : CP-2020-06-08-24

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03

Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/159/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2020

Date of test : 29/06/2020					Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M25	01/06/2020	29/06/2020	149.87 X	22652	8.426	626.9	27.7	27.6
					151.15 X					
					149.46					
2	RCC	M25	01/06/2020	29/06/2020	149.90 X	22378	8.795	602.9	26.9	
					149.28 X					
					151.20					
3	RCC	M25	01/06/2020	29/06/2020	150.19 X	22544	8.975	634.9	28.2	
					150.10 X					
					149.71					

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[Handwritten Signature]



FOR CIVIL PRO
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/06/2020

CP ID : CP-2020-06-08-24

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03

Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/159/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

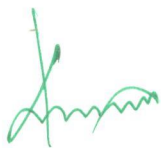
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2020

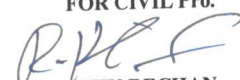
Date of test					:	29/06/2020				
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M25	01/06/2020	29/06/2020	151.00 X	22643	8.426	630.8	27.9	27.6
					149.95 X					
					151.08					
2	RCC	M25	01/06/2020	29/06/2020	151.34 X	22746	8.795	611.1	26.9	
					150.30 X					
					149.81					
3	RCC	M25	01/06/2020	29/06/2020	149.23 X	22483	8.975	634.4	28.2	
					150.66 X					
					151.36					

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 Authorized Signatory
 Quality Manager

TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No	Dimension (mm)			Wet Transverse Strength	Average
Sl.No.	L	B	T	(N/mm ²)	(N/mm ²)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

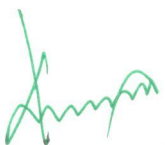
Page 2/2
End of Report

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QC ABSTRACT

NAME OF WORK: Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	TF Column Concrete M25	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.95	2	2




	Concrete for Water Tank (M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.55	2	2
	Water Tank Roof Concrete (M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.05	2	2
	PCC (M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	110.37	12	12
	RCC (M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	12.09	4	4
13	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
14	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
15	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1




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